Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

TRANSACTIONS

OF THE

AMERICAN MATHEMATICAL SOCIETY

EDITED BY

ELIAKIM HASTINGS MOORE

ERNEST WILLIAM BROWN THOMAS SCOTT FISKE

WITH THE COÖPERATION OF

EDWARD BURR VAN VLECK HENRY SEELY WHITE

CHARLES LEONARD BOUTON LEONARD EUGENE DICKSON JOHN IRWIN HUTCHINSON

EDWARD KASNER EDWIN BIDWELL WILSON

PUBLISHED QUARTERLY BY THE SOCIETY
WITH THE SUPPORT OF

YALE UNIVERSITY
COLUMBIA UNIVERSITY
WESLEYAN UNIVERSITY
HAVERFORD COLLEGE
THE UNIVERSITY OF MISSOURI
NORTHWESTERN UNIVERSITY
CORNELL UNIVERSITY
THE UNIVERSITY OF CALIFORNIA
THE UNIVERSITY OF CHICAGO
STANFORD UNIVERSITY

VOLUME 6
1905

LANCASTER, PA., AND NEW YORK
THE MACMILLAN COMPANY
AGENTS FOR THE SOCIETY
1905

PRESS OF
THE NEW ERA PRINTING COMPANY,
LANCASTER, PA.

TABLE OF CONTENTS

VOLUME 6 1905

PAGES

BLICHFELDT, H. F., of Stanford University, Cal. On imprimitive linear homogeneous groups 230–236

BROMWICH, T. J. I'A., of Galway, Ireland. The classification of quadrics 275–285

BROWN, E. W., of Haverford, Pa. On a general method for treating transmitted motions and its application to indirect perturbations 332–343

CARVER, W. G., of Baltimore, Md. On the Cayley-Veronese class of configurations 534–545

DICKSON, L. E., of Chicago, Ill. The minimum degree τ of resolvents for the p-section of the periods of hyperelliptic functions of four periods 48– 57

——— Definitions of a group and a field by independent postulates 198–204

——— On semi-groups and the general isomorphism between finite groups 205–208

——— On hypercomplex number systems 344–348

EIESLAND, J., of Annapolis, Md. On a certain system of conjugate lines on a surface connected with Euler's transformation . . 450–471

EISENHART, L. P., of Princeton, N. J. Surfaces of constant curvature and their transformations 472–485

EPSTEEN, S., of Chicago, Ill. (and J. H. MACLAGAN-WEDDERBURN). On the structure of hypercomplex number systems 172–178

FRÉCHET, M., of Paris, France. Sur les opérations linéares (deuxième note) 134–140

——— Sur l'écart de deux courbes and sur les courbes limites 435–449

HUNTINGTON, E. V., of Cambridge, Mass. A set of postulates for real algebra, comprising postulates for a one-dimensional continuum and for the theory of groups 17– 41

——— Note on the definitions of abstract groups and of fields by sets of independent postulates 181–197

——— A set of postulates for ordinary complex algebra . . 209–229

KASNER, E., of New York, N. Y. Surfaces whose geodesics may be represented in the plane by parabolas 141–158

LENNES, N. J., of Chicago, Ill. Volumes and areas 486–490

LOEWY, A., of Freiberg, Germany. Ueber die vollständig reduciblen Gruppen, die zu einer Gruppe linearer homogener Substitutionen gehören 504–533
LOVETT, E. O., of Princeton, N. J. On a problem including that of several bodies and admitting of an additional integral . . . 491–495
MACLAGAN-WEDDERBURN, J. H., of Chicago, Ill. (and S. EPSTEEN). On the structure of hypercomplex number systems 172–178
———— A theorem on finite algebras 349–352
MANNING, W. A., of Stanford University, Cal. On the primitive groups of class $3p$ 42– 47
MASON, M., of New Haven, Conn. The doubly periodic solutions of Poisson's equation in two independent variables 159–164
MILLER, G. A., of Stanford University, Cal. Determination of all the groups of order 2^m which contain an odd number of cyclic subgroups of composite order 58– 62
———— On the invariant subgroups of prime index 326–331
MOORE, E. H., of Chicago, Ill. On a definition of abstract groups. 179–180
NEIKIRK, L. I., of Philadelphia, Pa. Groups of order p^m, which contain cyclic subgroups of order p^{m-3} 316–325
PIERPONT, J., of New Haven, Conn. On multiple integrals . . . 416–434
POINCARÉ, H., of Paris, France. Sur les lignes géodésiques des surfaces convexes 237–274
ROE, Jr., E. D., of Syracuse, N. Y. On the coefficients in the quotient of two alternants 63– 74
ROYCE, J., of Cambridge, Mass. The relation of the principles of logic to the foundations of geometry 353–415
SHARPE, F. R., of Haverford, Pa. On the stability of the motion of a viscous liquid 496–503
SMITH, P. F., of New Haven, Conn. On the linear transformations of a quadratic form into itself 1– 16
VEBLEN, O., of Chicago, Ill. Theory of plane curves in non-metrical analysis situs 83– 98
———— Definition in terms of order alone in the linear continuum and in well-ordered sets 165–171
WILCZYNSKI, E. J., of Berkeley, Cal. General theory of curves on ruled surfaces 75– 82
———— General projective theory of space curves 99–133
WRIGHT, J. E., of Bryn Mawr, Pa. On differential invariants . . 286–315
Notes and errata: volumes 5, 6 546–547